

SECTION III.

[March 1875.]

8

DESCRIPTIVE CATALOGUE,

COMPRISING

PHOTOGRAPHIC APPARATUS  
AND

CHEMICAL PREPARATIONS,

Manufactured and Sold by

FREDERICK J. COX,  
OPTICIAN, &c.

26 LUDGATE HILL, LONDON, E.C.



Fig. 1.

**TERMS:** Cash.—Orders from the Country or Abroad, accompanied by a Remittance, or Reference for Payment in London, will receive immediate and careful attention.

Post-office Orders to be made payable to FREDERICK COX, at the Chief Office.  
Cheques crossed 'London and County Bank.'

**Notice.**—Postage stamps will not be received in payment for amounts exceeding four shillings.

**COMPLETE SETS OF APPARATUS.****Landscape Apparatus.**

**No. 1.** Set of Apparatus for Landscapes or objects in still life by the Collodion process, including a camera for pictures up to  $4\frac{1}{4} \times 3\frac{1}{4}$  inches. Achromatic lens, in brass mounting, camera stand, bath and dipper, glass plates, and all necessary chemicals, varnish, &c., packed in box .. . . . £2 12 6

**The Student's Set.**

**No. 2.** For the Collodion process, including an expanding camera with superior double achromatic lens to take portraits or views,  $4\frac{1}{4} \times 3\frac{1}{4}$  inches, tripod stand, bath, dipper, plate-box, plates, glass measure, funnel, scales and weights, collodion, nitrate-of-silver bath, developing solution, fixing solution, and varnish, in stoppered bottles, litmus paper, and book of instructions, packed in a strong box £3 10 0

**No. 3.** Apparatus and Chemicals same as No. 2, but adapted for pictures up to  $6\frac{1}{2} \times 4\frac{1}{4}$  inches .. . . . £5 5 0

**The Artist's Set.**

**No. 4.** SUPERIOR polished Camera for the Collodion process, and double achromatic lens of *the best quality*, with Waterhouse diaphragms, arranged for views, portraits, and cartes de visite, or album pictures; capable of producing portraits up to  $4\frac{1}{4} \times 3\frac{1}{4}$  inches, or views  $5 \times 4$  inches, including tripod stand, bath and dipper, plate-box, glass measure, funnel, scales and weights, printing frame, albumenized paper, porcelain pan, iodized collodion, nitrate of silver, protosulphate of iron, glacial acetic acid, nitric acid, pyrogallic acid, hyposulphite of soda, gold solution, acetate of soda, amber varnish, and glass plates, all of the best quality, complete in case with separate divisions for bottles, and lock and key, as fig. 1 .. . . £5 5 0

This set is frequently fitted up and adapted for producing Stereoscopic pictures. See No. 11, price 7l. 7s.

**The Tourist's Set.**

**No. 5.** PORTABLE SET OF APPARATUS, taking landscapes up to  $8\frac{1}{2} \times 6\frac{1}{2}$  inches, consisting of a mahogany camera, with bellows body, dark slides, &c., fitted with a guaranteed lens with rackwork adjustment on a rising front, portable jointed tripod stand, ebonite bath with air-tight top, two plate-boxes and glass plates, glass and porcelain pans, glass measure, funnel, printing frame, scales and weights, prepared paper, and all the necessary chemicals, packed in case complete .. . £12 12 0

A double-combination lens for taking portraits up to  $6\frac{1}{2} \times 4\frac{1}{4}$  inches, for which the camera is especially adapted, can be supplied in addition to the landscape lens; price complete .. . . . . £17 0 0

**The Artist's Set, extended Size.**

**No. 6.** APPARATUS the same as No. 4, but adapted for portraits up to  $6\frac{1}{2} \times 4\frac{1}{4}$  inches, and views  $7 \times 6$  inches, consisting of a double achromatic lens of *the best quality* arranged for both portraits and landscapes, a mahogany expanding camera, dark slide and focussing screen, tripod stand, printing frame, bath and dipper, two plate-boxes and twenty-four plates, two glass measures, two funnels, glass rod, scales and weights, albumenized paper, two porcelain pans, and all the necessary chemicals, as No. 4 .. . . . . £9 9 0

### The Traveller's Set.

**No. 7.** PORTABLE APPARATUS, similar to No. 5, arranged for views up to  $10 \times 8$  inches, with *guaranteed* lens, and rackwork adjustments, sliding fronts to camera, tripod stand, bath and dipper, plate-box and plates, large and small measures, funnels, porcelain pans, scales with glass pans, and weights, prepared paper, chemicals, and every requisite . . . . . £20 0 0

### The Artist's Set, full Size.

**No. 8.** APPARATUS the same as No. 4, for portraits up to  $8\frac{1}{2} \times 6\frac{1}{2}$  inches, with *guaranteed* lens, in brass rackwork mounting, mahogany expanding camera, tripod stand, printing frame, scales and weights, &c., and chemicals for the positive and negative process, packed in a strong case . . . . . £18 18 0

### The Universal Set.

**No. 9.** A COMPLETE SET OF APPARATUS, for portraits by the collodion process, up to  $8\frac{1}{2} \times 6\frac{1}{2}$  inches, and views  $10 \times 8$  inches, with best mahogany expanding camera, dark slide, frames, and focussing screen, a double-combination achromatic lens of the best quality, mounted in brass with rackwork, and central diaphragms for portraiture; also a 3-inch landscape lens, best quality, in rackwork mounting, with stops for views, camera stand, dipping bath, printing frame, scales and weights, glass measures, funnels, glass plates and rods, packed in strong case £21 0 0

Complete service of chemicals for this set, see page 4.

## STEREOSCOPIC SETS.

**No. 10.** SET OF APPARATUS for taking Stereoscopic pictures, consisting of a binocular camera, and pair of good achromatic lenses, tripod stand, bath and dipper, plate-box and plates, glass measure, funnel, scales and weights, collodion, nitrate-of-silver bath, developing solution, fixing solution and varnish, in glass-stoppered bottles, litmus test paper, and book of instructions, the whole packed in box £5 0 0

**No. 11.** SUPERIOR mahogany camera, fitted with a *best* double-combination achromatic lens, with stop and adapter, for landscapes and portraiture, mounted on a mahogany table with parallel lath, as fig. 11, capable of taking stereoscopic pictures, cartes de visite, and portraits, up to  $4\frac{1}{4} \times 3\frac{1}{4}$  inches, and views  $5 \times 4$  inches, tripod stand, bath and dipper, plate-box and plates, collodion, nitrate of silver, chloride of gold, and all necessary apparatus and chemicals, of the best quality, packed in case, with separate divisions for bottles, &c. . . . . £7 7 0

### Tourists' Stereoscopic Set.

**No. 12.** TOURISTS' stereoscopic camera for the dry process, page 13, with three double dark slides, landscape lenses, stand, focussing screen, plate-box and plates, chemical chest for the dry collodion process and printing on paper, including a pressure-frame, scales and weights, glass measures, pans, &c. &c. £12 12 0

### Combined Apparatus.

**No. 13.** AN IMPROVED SET OF APPARATUS, suitable for general purposes, including a mahogany camera with rising front, and a pair of portrait lenses, arranged to take either portraits or views, with Waterhouse's system of central diaphragms, similar to *fig. 13*; stand, pressure-frame, bath, chemicals, and all the necessary appliances, similar to set No. 11. This apparatus is designed for the ordinary stereoscopic portraits and views, and is particularly available for cartes de visite, or ordinary portraits, up to  $4\frac{1}{4} \times 3\frac{1}{4}$  .. . . . £11 10 0

An Achromatic-View Lens can be had, with an additional rising front for landscapes on the whole size of plate,  $7\frac{1}{4} \times 4\frac{1}{2}$ , at an extra expense of £2 7s. 6d.

### Pocket Set.

**No. 14.** SET OF APPARATUS, consisting of a pocket bellows-body camera, as fig. 14, with three double dark slides, carrying plates  $4\frac{1}{4} \times 3\frac{1}{4}$ , fitted with a best single achromatic lens and tripod stand; the apparatus packed for travelling in a case with separate divisions, including all necessary chemicals, dropping bottles, developing stand, dish, and one dozen prepared plates ready for exposure, and everything required for working whilst on a few days' tour .. . . £8 8 0

Sling Leather Case to carry the camera and dark slides for the days' work 16s. extra.

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Practical instructions are given to purchasers of complete sets; and if residing in the country or abroad, any further information than is contained in the *Compendium of Photography* will be sent by letter.

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FREDK. J. Cox recommends the sets Nos. 4, 5, 6, 7, 8, 9, 11, 12, 13, and 14, as being of the very best quality, and with them (if required) a picture taken by the Instrument will be sent. They are packed in cases with compartments for the bottles, &c. (See fig. 1.)

For Tropical Climates, a special description of apparatus will be supplied at an extra cost of 15 per cent.

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### CHEMICAL CABINETS FOR AMATEURS OR EXPORT.

Containing a supply of chemicals for the Negative process, including 40 ozs. negative collodion, 3 ozs. recrystallized nitrate of silver, 20 ozs. glacial acetic acid, 20 ozs. pure alcohol, 16 ozs. protosulphate of iron, 4 ozs. citric acid, 4 ozs. formic acid, 2 oz. nitric acid, 2 ozs. sulphuric ether, 1 oz. pyrogallic acid (best),  $\frac{1}{2}$  oz. iodine,  $\frac{1}{2}$  oz. iodide potass, 2 bot. varnish, 3 bot. glass polish (large), 2 packets filtering paper and litmus paper, all packed in stoppered bottles, and plain wood case £3 3 0

Containing a supply of chemicals for the printing process, including 6 oz. nitrate of silver, 1 quire best albumenized rive paper, 1 quire ditto Saxe paper, 2 lbs. kaolin, 1 lb. acetate soda, 2 drachms of chloride of gold, 7 lbs. hyposulphite of soda, 2 lbs. dextrine, 8 oz. carbonate of soda, all packed in jars, &c., and in plain wood case, £3 3 0

If required, cabinets with separate divisions, similar to *fig. 1*, can be provided at a moderate price. Larger sizes at a proportionate cost.

## ACHROMATIC LENSES FOR PHOTOGRAPHY.

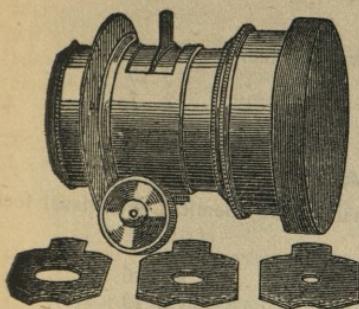


Fig. 2.

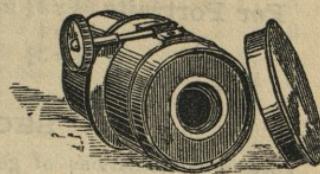


Fig. 3.

The lenses chiefly used for Photographic purposes are the *single achromatic*, the *double achromatic*, and the *achromatic triplet*.

**The Double Achromatic**, although arranged for Portraiture, can be adapted for Landscape purposes by removing the back combination, and placing a diaphragm in front of the cemented first pair of lenses ; or for Groups, where rapidity is an important consideration, by placing a stop or diaphragm between the two sets of achromatic combinations : for which purpose Waterhouse's arrangement of diaphragms is convenient.

**The Single Achromatic** is recommended for Landscape purposes : they are supplied with diaphragms to contract the rays of light.

For ARCHITECTURAL purposes, or copying, the triplet is an improvement over the single achromatic ; the difference is especially seen in copying, as the whole of the map or drawing is in perfect focus, up to the corners, and the marginal lines are not distorted.

## PORTRAIT COMBINATIONS,

OF OUR OWN MANUFACTURE, WITH CENTRAL DIAPHRAGMS

**Double Achromatic Lens**, consisting of a combination of four glasses securing perfect achromatism, close coincidence of the rays, and flatness of field ; in brass rackwork mountings, and fitted with central diaphragms, as *fig. 2*, of the best quality (MAKER'S NAME ENGRAVED) :

For Portraits	10 × 8 inches	£	s.	d.
"	8½ × 6½ "	..	..	0 0 0
"	6½ × 4¾ "	..	..	9 15 0
"	5 × 4 "	..	..	4 10 0
"	4¼ × 3¼ "	..	..	3 10 0
"	3¼ × 2¾ "	..	..	2 5 0
		..	..	2 0 0

The smaller size lenses are also made with a simple and efficient adapter, to reverse the front combination, by which means they are applicable for taking views, &c. With them there are stops fitting into the front hood, in addition to the central diaphragm.

<b>For Portraits</b>	$6\frac{1}{2} \times 4\frac{3}{4}$ inches, and Views	$8 \times 6$ inches	£5 0 0
"	$5 \times 4$ "	$6 \times 5$ "	3 15 0
"	$4\frac{1}{4} \times 3\frac{1}{4}$ "	$5 \times 4$ "	2 7 6

### SECOND QUALITY.

Portrait combinations of good average quality, the chemical and visual foci being corrected, with rackwork adjustments.

<b>For Portraits</b>	up to $8\frac{1}{2} \times 6\frac{1}{2}$ inches	.. ..	£6 6 0
"	$6\frac{1}{2} \times 4\frac{3}{4}$ "	.. ..	2 15 0
"	$4\frac{1}{4} \times 3\frac{1}{4}$ "	.. ..	1 5 0

### CARTE-DE-VISITE PORTRAIT LENSES,

OF OUR OWN MANUFACTURE.

<b>No. 1.</b> Portrait combination, requiring for the ordinary sized picture a distance of 13 feet between the figure and the lens, with Waterhouse diaphragms, fig. 2	.. .. .. .. ..	£ .. d.
	.. .. .. .. ..	2 5 0

<b>No. 2.</b> Quick-acting combination, requiring a distance of 15 feet between the figure and lens, with Waterhouse stops	.. .. .. .. ..	3 10 0
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<b>No. 3.</b> Large-aperture combination, $2\frac{3}{8}$ inches' diameter, 6-inch focus, working at a distance of 18 feet, rackwork adjustment, and central diaphragms	.. .. .. .. ..	4 10 0
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These lenses can be had in pairs, or in sets of three or four of identical foci, if required.

### CABINET LENS.

Quick-acting achromatic combination, $2\frac{3}{8}$ inches diameter, $6\frac{1}{2}$ -inch focus, working at a distance of 15 feet, central diaphragms	.. .. .. .. ..	6 6 0
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### INSTANTANEOUS MEDALLION LENSES.

Quick-acting combination of Achromatic Lenses for Postage-stamp or Medallion Portraits. Diameter of Lenses, $\frac{7}{8}$ inch	.. .. .. .. ..	£1 5 0
Ditto Rackwork	.. .. .. .. ..	1 12 6

## F. J. COX'S LANDSCAPE LENSES,

CONSISTING OF AN ACHROMATIC COMBINATION IN BRASS MOUNTINGS, WITH  
STOPS FOR REGULATING THE LIGHT. *Fig. 3.*

Inches.

	With rackwork adjustments. In plain sliding tubes.
1½ diameter, for Stereoscopic Pictures ..	£1 4 0 ..... £0 18 0
1¾ " for Pictures 5 × 4 inches ..	1 11 6 ..... 1 3 0
2 " ditto 7½ × 4½ " ..	2 2 0 ..... 1 15 0
2½ " ditto 8 × 6 " ..	2 10 0 ..... 2 2 0
3 " ditto 10 × 8 " ..	4 15 0 ..... 4 0 0
3½ " ditto 12 × 10 " ..	6 16 0 ..... 5 0 0*
4 " ditto 15 × 12 " ..	..... 7 0 0*
5 " ditto 18 × 16 " ..	..... 14 0 0*

\* These lenses have rigid mounts, not sliding tubes.

A pair of twin lenses, 5-inch focus, in brass sliding tubes, for  
the Stereoscopic Camera, *fig. 12* ..

Ditto, with rack and pinion adjustments ..

1 17 6

2 10 0

A pair of 5-inch focus lenses are more generally useful, but occasionally it is impossible to get sufficient distance from the object to include all the subject on the stereoscopic plate; in which case a pair of short-focus (4-inch) will effect the purpose: they can be had mounted in cells to screw into either the above mountings, packed into a neat leather case, at an additional cost of 25s.

## SINGLE ACHROMATIC LENSES,

UNMOUNTED.

1½-inches diameter ..	£	s.	d.	3-inches diameter ..	£	s.	d.
	0 10 0				3 3 0		
1¾ " ..	0 14 0			3½ " ..	4 0 0		
2 " ..	1 1 0			4 " ..	5 15 0		
2½ " ..	1 5 0			5 " ..	12 0 0		

## F. J. COX'S ACHROMATIC TRIPLET,

FOR ARCHITECTURAL OR COPYING PURPOSES.

This combination has been especially designed for avoiding the evils of distortion and bad marginal definition: it consists of a pair of cemented achromatic lenses, with a concave or dispersing lens placed between them; the exposure required is slightly longer than with the single achromatic; by removing the central concave lens and retaining the two achromatic combinations without the central concave, it is converted into a useful, quick-acting portrait lens, especially suitable for groups.

They are mounted in a strong brass tube, with Waterhouse diaphragms.

No. 1 for Pictures up to 7½ × 4½ inches ..	£3 3 0
„ 2 „ „ 8½ × 6½ „ ..	4 4 0
„ 3 „ „ 12 × 10 „ ..	8 0 0

Central Diaphragms fitted to lenses. Racks and Pinions repaired,  
and alterations of every description.

## C A M E R A S.

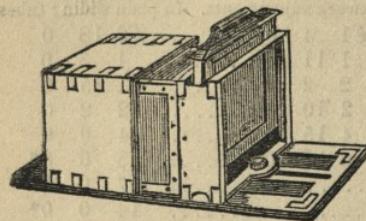


Fig. 4.

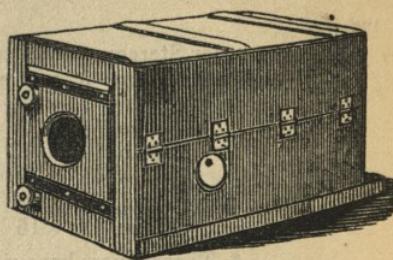


Fig. 5.

**Photographic Cameras** are made in two forms—that is, either vertical or square; the latter shape is for the purpose of taking the collodion plate either in a horizontal or vertical direction, for groups, &c.

## POLISHED MAHOGANY CAMERAS,

OUR OWN MANUFACTURE.

Made of good seasoned mahogany, French polished, with dark slide, two plate-carriers, silver-wire corners, and focus screen.

For Pictures up to	Vertical.			Square.		
	£	s.	d.	£	s.	d.
4½ × 3½ inches .....	0	15	6	1	0	0
5 × 4 ,,, .....	1	0	0	1	5	0
6½ × 4¾ ,,, .....	1	8	6	1	18	0

These Cameras are recommended as a good serviceable article for indoor use. If extra plate-carriers are required, see p. 17.

## BEST-MADE MAHOGANY CAMERAS.

French polished, with expanding body, one dark slide, two carriers for plates, and focussing screen.

For Pictures up to	Vertical or Horizontal.			Square.		
	£	s.	d.	£	s.	d.
5 × 4 inches .....	1	3	6	1	15	6
6½ × 4¾ ,,, .....	1	14	0	2	5	0
7 × 6 ,,, .....	2	0	0	2	12	6
7½ × 4½ ,,, .....	2	0	0	3	0	0
8½ × 6½ ,,, .....	2	15	0	3	10	0
10 × 8 ,,, .....	3	13	6	4	10	0

Rising fronts. 5s. extra; or rackwork adjustment, 7s. 6d. to 10s. 6d. extra.

## SPANISH-MAHOGANY CAMERAS.

Of the very best materials and workmanship, with rising fronts for regulating the amount of foreground and sky without slanting the camera. *Fig. 4.*

The bottom board folds up, and for portability an extra groove is made to carry the focus screen.

For Pictures up to	Vertical or Horizontal.	Square.			Brass Binding extra.		
		£	s.	d.	£	s.	d.
9 x 7 inches .....	4 14 6 .....	6	10	0 .....	1	7	0
10 x 8   ",	5 10 0 .....	7	10	0 .....	1	10	6
11 x 9   ",	6 10 0 .....	8	10	0 .....	1	15	0
12 x 10   ",	7 15 0 .....	10	0	0 .....	2	5	0
15 x 12   ",	10 0 0 .....	12	10	0 .....	2	12	0
18 x 16   ",	16 0 0 .....	19	0	0 .....	3	0	0

*The prices include one dark slide, two inner carriers for collodion plates, and focus screen; for tropical climates, brass binding is recommended.*

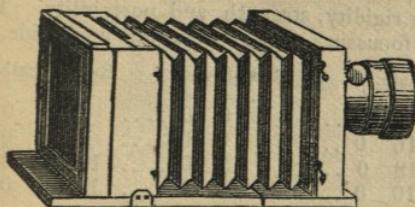
## FOLDING CAMERAS.

**Folding Mahogany Cameras** (*fig. 5*), with double-action sliding fronts, one dark slide, two holders for collodion plates, and focussing screen.

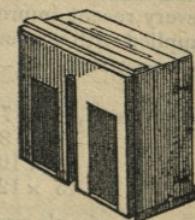
These cameras are not so portable as the Kinnear's Camera, but are preferred by some operators, more especially in tropical climates.

9 x 7 .. £4 10s.      10 x 8 .. £5 5s.      12 x 10 .. £7 10s.  
Brass bindings, 20s., 28s., and 35s. extra.

## BELLOWS BODY CAMERAS.



*Fig. 6.*



*Fig. 6a.*

**Bellows-body Cameras**, square (*fig. 6a*), with dark slide, focus screen, carriers, jointed bottom-board, and leather bellows.

For Pictures up to	$4\frac{1}{4} \times 3\frac{1}{4}$ inches, 1 10 0 ..	Best quality,		£	s.	d.	
		with rising front ..	"				
"	5 x 4   ",	1	16	0 ..	2	5	0
"	6 $\frac{1}{2}$ x 4 $\frac{3}{4}$ ",	2	10	6 ..	2	17	6
"	8 $\frac{1}{2}$ x 6 $\frac{1}{2}$ ",	3	17	6 ..	3	13	6
"	10 x 8   ",	..	..	"	5	10	0
"	12 x 10   ",	..	..	"	6	10	0

Steel screw and winch handle for adjustment of focus, 12s. 6d., 14s., 15s., 17s. 6d., 20s., and 22s. 6d. additional in either quality.

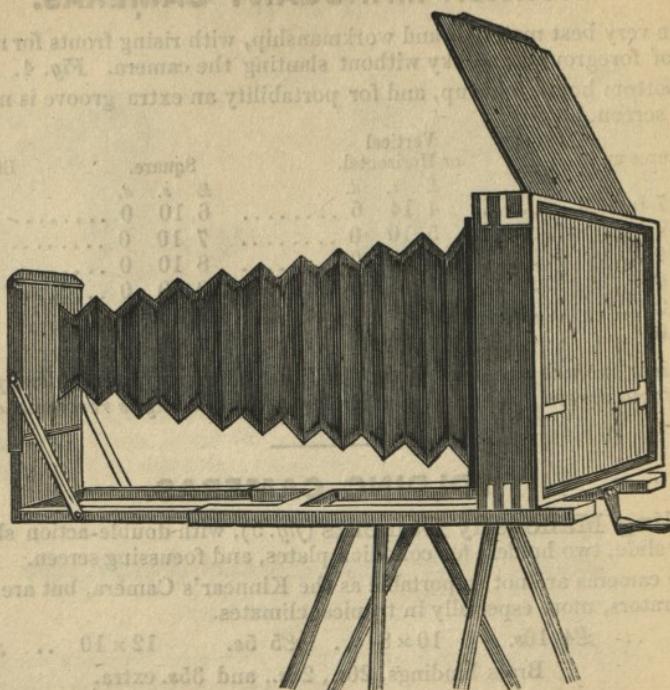
**IMPROVED KINNEAR'S CAMERA.**

Fig. 7.

**The Kinnear Camera** (fig. 7), as manufactured by FREDERICK J. COX, have every recent improvement to insure rigidity, strength, and portability. They are supplied with a screw-adjustment for focussing, focus screen, one dark slide, and two plate-carriers.

	Plain.	Brass-bound.	Russia Leather.
	£. s. d.	£. s. d.	£. s. d.
For Views, 9 x 7 inches .....	6 0 0 ....	7 0 0 ....	7 10 0
" 10 x 8 " .....	6 16 0 ....	8 0 0 ....	9 9 0
" 12 x 10 " .....	8 18 0 ....	9 15 0 ....	10 10 0
" 15 x 12 " .....	10 10 0 ....	12 10 0 ....	14 0 0

By a very simple arrangement, all the advantages of a swing back are obtained without increase of weight or expense.

For exportation, Russia-leather bellows are preferable, as they are not so readily attacked by insects.

**BROOCH AND LOCKET CAMERAS.**

Made of good seasoned mahogany, with dark slide and carrier, focus screen, &c., fitted with a portrait lens of the best quality, for plates  $2\frac{3}{4} \times 3\frac{1}{4}$  .. £2 12 6  
 Ditto, ditto, with Medallion Lens for Lockets, giving a good portrait,  $1\frac{1}{2}$  inches high .. £2 2 0

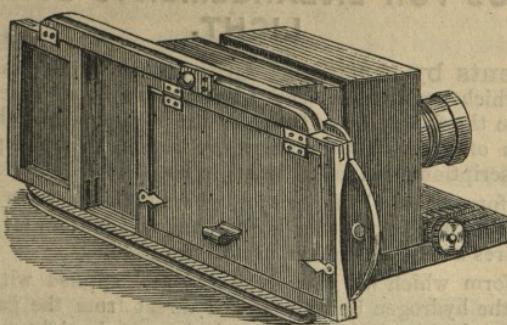
**CARTE-DE-VISITE CAMERAS.**

Fig. 8.

**Binocular Camera**, best make, for plates  $7\frac{1}{4} \times 4\frac{1}{2}$  or  $6\frac{1}{2} \times 4\frac{1}{4}$ , with rising front and movable partition .. . . . . £2 10 6

**Sliding-back Camera**, carrying a plate  $6\frac{1}{2} \times 4\frac{1}{4}$ , on which two carte-de-visite negatives can be taken by one lens .. . . . £1 16 6

Ditto, with rackwork adjustment, fig. 8 .. . . . 3 10 0

Extra dark slide and two carriers for ordinary portraits, 15s. Rising front, 5s. extra.

**ARTIFICIAL LIGHT APPARATUS.**

**MAGNESIUM WIRE or RIBBON.**—The price being variable, no fixed quotation can be given; the present rate is 16s. per oz., or 6d. per yard.

**HAND REELS or LAMPS**, 12s. 6d.; Ditto, with reflector, 15s.

**CLOCKWORK LAMPS**, 36s.

**COMPLETE SET OF OXY-HYDROGEN APPARATUS** for the Lime-light, with gas-bags, retort, purifier, jet, and Cox's improved double-pressure boards £10 10 0

Ditto, for oxy-calcium light, with coal-gas burner .. . . . 6 0 0

Ditto, with spirit lamp and zephyr bag .. . . . 5 0 0

Oxygen mixture, per lb., 1s. 6d. to 2s. (variable.)

Best lime cylinders, per doz. in canister, 2s. 6d.; oxy-calcium, 2s.

**DEEP PLANO-CONVEX LENSES,**

FOR LIGHT CONDENSERS.

1½-inches diameter .. . .	£0 3 0	4½-inches diameter .. . .	£0 18 0
2½-inches .. . .	0 4 6	6-inches .. . .	1 10 0
3-inches .. . .	0 6 6	8-inches .. . .	2 10 0
4-inches .. . .	0 12 6	9-inches .. . .	3 5 0

For condensers and lenses for Magic Lanterns see Catalogue, Section II.

## APPARATUS FOR ENLARGEMENTS BY ARTIFICIAL LIGHT.

**Enlargements by Artificial Light** can only be practically effected by the lime light, which possesses several advantages over all others. Magnesium is objectionable from the flickering and size of the flame; whilst the electric light is beyond the reach of most photographers, by reason of its expense and trouble. There are two descriptions of lime-light jets in use.

The ordinary form of oxy-hydrogen jet, where both gases are burnt under pressure, and allowed to mix inside the burner before ignition, is certainly the most intense, but requires attention and the use of two gas-bags.

The simpler form which we have perfected and applied with success requires but one gas-bag, the hydrogen being supplied direct from the gas-main, and as the gases do not mix in the jet, all danger of explosion which might arise from negligence in using the mixed gases is avoided: the slightly increased exposure not being considered of any importance.

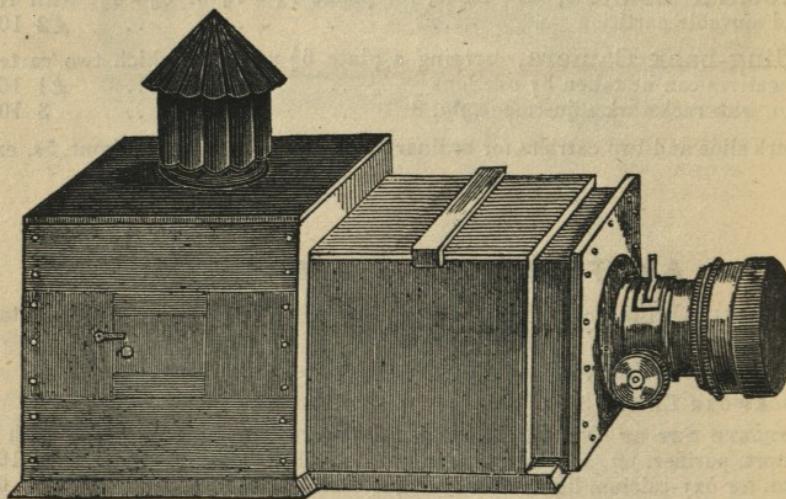


Fig. 9.

**Mahogany Camera, fig. 9,** with compound 6-inch condensing lenses, Cox's improved hydro-oxygen jet, flexible tubes, gas-bag, containing supply for one hour, pressure-board, retort and purifier complete for making the oxygen £12 0 0

For further particulars as to making the gas, and management of the light, see Catalogue, Section II.: free for two stamps.

As it frequently is not requisite to include the whole of the carte negative in the enlargement, condensing lenses of a smaller size may be used.

The Apparatus as above, with 4½-inch condensing lenses	£10 15 0
Ditto, 3½ inch	9 10 0

Large-size bag for 1½ hour's gas, 10s. additional.

The usual carte-de-visite lens is recommended, but is not included in these prices.  
See page 6.

**SOLAR CAMERA.**

Woodward's Camera, to produce life-size portraits, &c., from a small negative, or for enlarging views, &c. Price, with 9-inch condensing lens, and rackwork adjustments .. . . . . £15 0 10

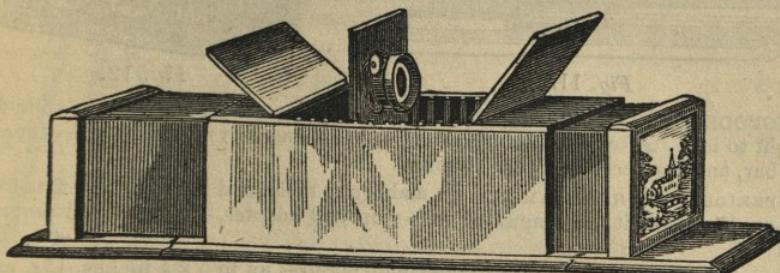
**ENLARGING AND COPYING CAMERAS.**

Fig. 10.\*

**Bellows-body Camera**, of long focus, for ordinary copying work, of good quality, rising front, square dark slide, and carriers for 5 x 4 plates .. £2 17 6

Ditto for plates 8½ x 6½ inches .. . . . . 5 10 0  
Ditto , 10 x 8 , . . . . . 6 16 6

Screw adjustment, 15s., 20s., and 22s. 6d. additional.

**Enlarging Camera**, fig. 10, consisting of a mahogany case, with *double-bellows* body, screw adjustment, folding bottom-board. It can be used for reducing or enlarging negatives, or for producing transparent positives, either on ground or opal glass.

With focus screen, dark slide, and carrier for negatives,

up to 8½ x 6½ inches	..	..	..	£8 10 0
Ditto 10 x 8 "	..	..	..	10 10 0
Ditto 12 x 10 "	..	..	..	12 10 0

These cameras are suitable for enlarging carte negatives up to the full size of the plate, the usual carte portrait lens being recommended.

\* These Cameras are now made with leather bodies, not wood, as shown in the engraving.

**BINOCULAR TOURISTS' CAMERA, BELLOW'S BODY.**

**Tourists' Binocular Camera**, with a range of focus from 3½ to 10 inches, and is suitable for stereoscopic views, carte-de-visite portraits, or for single pictures on the full-size plate, 7½ x 4½. The focus screen is hinged, and the dark slides are retained in their place by a *spring catch*: there is also a *swing-back* movement, and screw for focussing, central movable partition, and every improvement: price, including one wet back .. . . . £5 15 6

Double backs, each 20s. extra.

## STEREOSCOPIC CAMERAS.

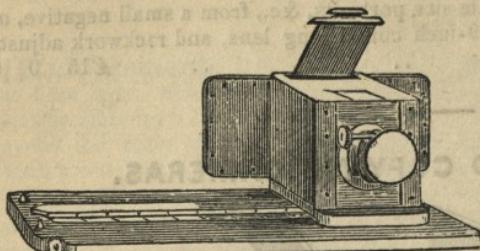


Fig. 11.

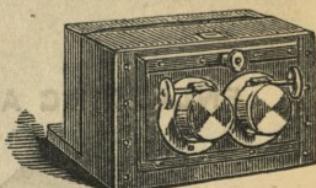


Fig. 12.

**Stereoscopic Camera**, fig. 11; the camera mounted on a lath, to slide from the right to left. After one picture is taken the camera is moved to the other end of the bar, and the second picture obtained.

**SUPERIOR POLISHED CAMERA**, on mahogany table, and parallel bar, fitted with a *best-quality* portrait lens, mounted with stop and adapter, for views and portraits, fig. 11 .. . . . . £4 10 0

An extra dark slide and carriers to take single pictures up to  $5 \times 4$  inches, 15s. extra.

**Fig. 12** represents a twin-lens or binocular camera, and where rapidity of exposure is an important object, or movable subjects are to be photographed, it is the best instrument to employ.

<b>MAHOGANY CAMERA</b> , with two warranted single achromatic lenses in brass sliding tubes, for landscapes, &c. .. . . .	£2 17 6
<b>Ditto</b> , with rackwork adjustments .. . . .	3 15 0

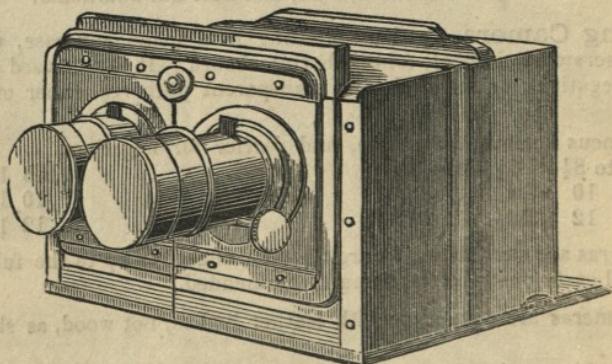


Fig. 13.

**Universal Camera.** Mahogany camera, fitted with a pair of *best-quality* portrait lenses and Waterhouse stops, on a rising front. This camera takes a plate  $7\frac{1}{4} \times 4\frac{1}{2}$ , suitable either for stereoscopic pictures or two carte-de-visite negatives on the same glass .. . . . . £7 0 0

**Ditto**, with a rackwork separating front, so that the lenses can be fixed a greater distance apart, and is then suitable for large stereoscopic views, &c. (fig. 13) £7 17 6

The same camera can be made available for landscape purposes, on plates the full size, by having an additional rising front and landscape lens, thus producing pictures up to  $7\frac{1}{4} \times 4\frac{1}{2}$ . The extra expense is £2 7s. 6d.

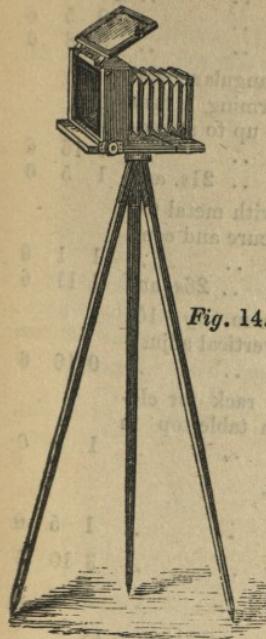
**COX'S POCKET CAMERA.**

Fig. 14.

This Camera is intended for plates  $4\frac{1}{4} \times 3\frac{1}{4}$ , and when closed measures  $5\frac{1}{2} \times 5 \times 2\frac{1}{2}$ . It is constructed with a bellows body and rackwork adjustment, the bottom board is hinged, and when not in use turns up and protects the focus screen. Price, including three double backs and best achromatic-view lens .. £5 15 0

Additional Portrait Lens for this camera, in brass mount, 30s. extra.

TRIPOD STAND, very light brass tube, jointed for portability .. .. .. ..	0 16 6
Ditto, with wood legs, closing as an alpen-stock : recommended .. .. .. ..	1 0 0

---

This apparatus is designed for Tourists or others who wish to preserve souvenirs of their travels; the pictures are a convenient size for mounting in albums, or for printing transparencies for the magic lantern. Copies from them can also be enlarged at a very moderate cost.

For further particulars see complete set of apparatus, No. 14, page 4.

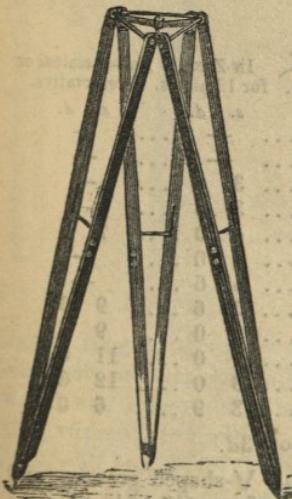
**CAMERA STANDS.**

Fig. 15.

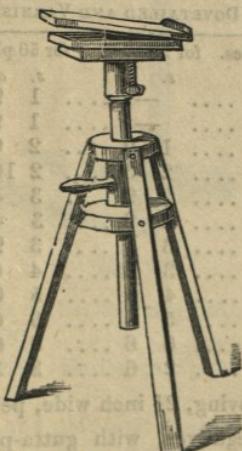


Fig. 16.

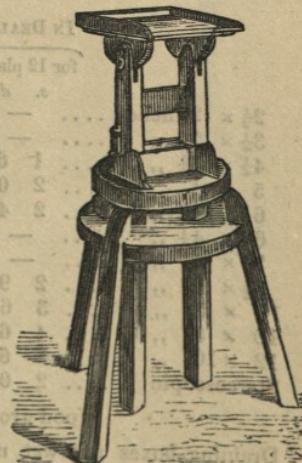


Fig. 17.

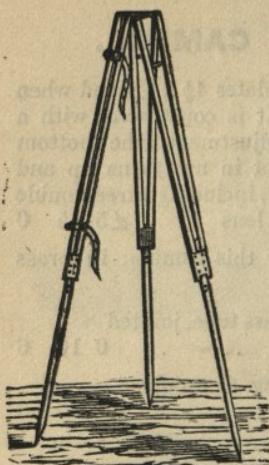


Fig. 18.

<b>TRIPOD STAND</b> , with mahogany top, 3 ft. 6 in.						
high .. .. .. ..	£0	4	6			
Ditto, 4 feet .. .. .. ..	0	5	6			
Ditto, 4 feet 6 inches .. .. .. ..	0	8	0			
<b>*POLISHED ASH STAND</b> , with triangular metal top, and stretchers for legs, forming a firm and portable stand for cameras up to stereoscopic or half size, <i>fig. 15</i> .. ..	0	16	6			
Ditto, larger size .. .. .. 21s. and 1	1	5	0			
<b>*JOINTED TRAVELLING STAND</b> , with metal top and stretchers for legs, very secure and compact, <i>fig. 18</i> .. .. ..	1	1	0			
Ditto, larger size .. .. .. 26s. and 1	1	11	6			
<b>PILLAR STAND</b> for operating-room, <i>fig. 16</i> , made of fir, with rising and vertical adjustment .. .. .. ..	0	10	6			
<b>STANDS</b> for operating-room, with rack for elevating and depressing, with table-top in white wood, <i>fig. 17</i> .. .. ..	1	0	0			

\* Recommended for out-door work.

<b>Ditto</b> , in oak .. .. .. ..	..	..	..	..	..	1	5	0
<b>STUDIO STAND</b> , unpolished, with strong screw adjustments .. .. ..	..	..	..	..	..	3	10	0
<b>SUPERIOR STAND</b> for operating-room, with rackwork .. .. ..	..	..	..	..	..	5	0	0

**LIGHT PORTABLE STANDS** suitable for the pocket camera, *see page 15.*

## PLATE-BOXES.

IN DEAL, DOVETAILED AND VARNISHED, for 12 plates. for 25 plates. for 50 plates.				IN ZINC, Non-chemical or for 12 plates. Preservative.		
--	--	--	--	--	--	--

	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
$2\frac{1}{2} \times 2$ inches .. ..	—	—	1 9 ..	—	—	—
$3\frac{1}{4} \times 2\frac{3}{4}$ " .. ..	—	—	1 9 ..	—	—	—
$4\frac{1}{4} \times 3\frac{1}{4}$ " .. ..	1 6 ..	1 9 ..	2 0 ..	3 0 ..	3 6 ..	—
$5 \times 4$ " .. ..	2 0 ..	2 3 ..	2 10 ..	3 ..	—	—
$6\frac{1}{2} \times 4\frac{3}{4}$ " .. ..	2 4 ..	2 9 ..	3 4 ..	4 0 ..	—	7 0
$6\frac{1}{2} \times 4\frac{1}{4}$ " .. ..	—	2 9 ..	3 4 ..	4 0 ..	—	—
$7\frac{1}{4} \times 4\frac{1}{2}$ " .. ..	—	3 0 ..	3 9 ..	4 6 ..	—	—
$8\frac{1}{2} \times 6\frac{1}{2}$ " .. ..	2 9 ..	3 6 ..	4 6 ..	5 6 ..	—	9 0
$9 \times 7$ " .. ..	3 6 ..	4 6 ..	5 6 ..	6 0 ..	—	9 6
$10 \times 8$ " .. ..	4 6 ..	5 6 ..	6 6 ..	7 0 ..	—	11 0
$12 \times 10$ " .. ..	5 6 ..	6 6 ..	8 6 ..	8 0 ..	—	12 6
Stereoscopic .. ..	2 0 ..	2 6 ..	3 3 ..	3 9 ..	—	6 6

Wood grooving,  $2\frac{1}{2}$  inch wide, per foot, 3d.

Draining-boxes for wet negatives, with gutta-percha V-shaped grooves and india-rubber cushions, for plates  $6\frac{3}{4} \times 3\frac{1}{4}$ , 7s.;  $6\frac{1}{2} \times 4\frac{3}{4}$ , 7s.;  $8\frac{1}{2} \times 6\frac{1}{2}$ , 8s. 6d.;  $9 \times 7$ , 9s. 6d.;  $10 \times 8$ , 10s. 6d.

**PLATE CARRIERS,**

Suitable for any form of camera, made of mahogany, with silver-wire corners, any size openings. Outside size, not exceeding—

5 x 4	7 x 6	9 x 7	12 x 10	15 x 12 inches,
1s. 6d.	2s.	2s. 6d.	3s.	3s. 6d.

**FIELD BOXES.**

Made of pine, with divisions to hold chemical bottles sufficient for one day's use, a grooved-division case for glass plates, so arranged that the moisture may evaporate from the finished picture.

Price for 7 x 6 size	..	..	..	£1 10 0
„ 9 x 7 „	..	..	..	2 0 0
„ 10 x 8 „	..	..	..	2 10 0

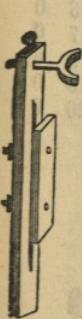
**HEAD RESTS.**

Fig. 19.

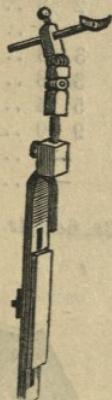


Fig. 20.

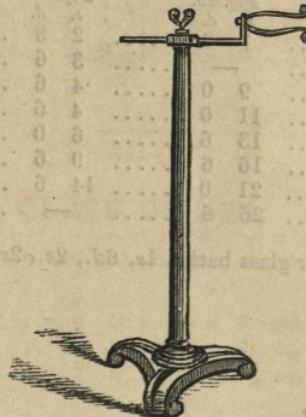


Fig. 21.



Fig. 22.

Head Rests, with screw to fix on back of chair, fig. 19	..	..	£0 2 0
Ditto, with universal joints, fig. 20	..	..	0 5 6
IRON HEAD REST, with rising pillar, similar to fig. 21	..	..	0 18 6
Ditto, with cast-iron pillar	..	..	1 2 0
Ditto, with support for the back and universal joint at the top, fig. 22	..	1 10 0	
DOUBLE-SLIDE HEAD REST, rising from 2 ft. 6 in. to 6 ft., suitable for children or adults : best quality, with support for the back	..	3 7 6	

## DIPPING BATHS.

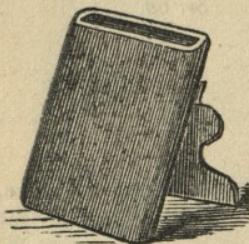


Fig. 23.

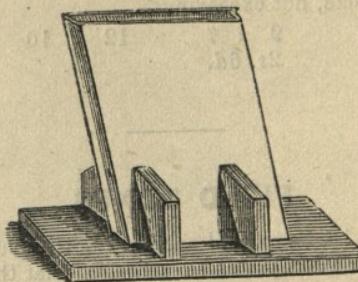


Fig. 24.

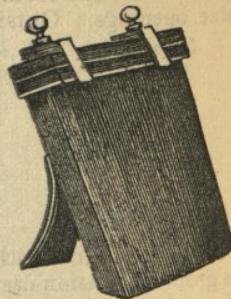


Fig. 25.

**EBOONITE BATHS**, *fig. 23*, or with air-tight tops, *fig. 25*.

**PORCELAIN**, with mahogany back, *fig. 23*.

**GREEN AND WHITE GLASS BATHS**, *fig. 24*. (Stands extra.)

For Plates.	Ebonite.	Ebonite.	Porcelain, mahogany back.	Green Glass Baths.	White Glass Baths.
	<i>Fig. 23.</i>	<i>Fig. 25.</i>	<i>Fig. 23.</i>	<i>s. d.</i>	<i>s. d.</i>
Inches.	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>		
$4\frac{1}{4} \times 3\frac{1}{4}$ ..	4 0 ..	7 0 ..	2 8 ..	2 8 ..	3 6
5 x 4 ..	— ..	— ..	3 6 ..	— ..	4 3
$6\frac{3}{4} \times 3\frac{1}{4}$ ..	6 0 ..	9 0 ..	4 6 ..	3 8 ..	4 6
$6\frac{1}{2} \times 4\frac{3}{4}$ ..	6 0 ..	11 0 ..	4 6 ..	3 8 ..	5 0
$8\frac{1}{2} \times 6\frac{1}{2}$ ..	8 0 ..	13 6 ..	6 0 ..	5 4 ..	7 0
10 x 8 ..	10 0 ..	16 6 ..	9 6 ..	9 0 ..	9 6
12 x 10 ..	14 6 ..	21 0 ..	14 6 ..	— ..	13 0
15 x 12 ..	18 6 ..	26 6 ..	— ..	— ..	26 0

Wood stands for glass baths, 1s. 6d., 2s., 2s. 6d., 3s. 6d., 4s., 5s.

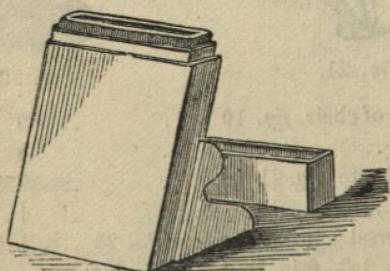


Fig. 26.

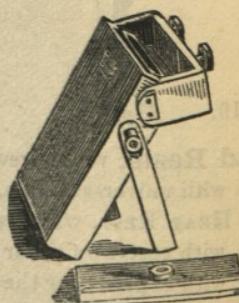


Fig. 27.

**Solid Glass Baths,** in plain deal cases, as *fig. 26*, with back support and cover to protect from dust, &c.; or in mahogany cases, with air-tight top and clamp screws, fixed in a swing bar, to turn out of the way when in use, as *fig. 27*.

For Plates.	Plain Deal case. <i>Fig. 26.</i>	Air-Tight Top. Mahogany. <i>Fig. 27.</i>			Air-Tight Top. Deal.		
		£	s.	d.	£	s.	d.
Inches.	s. d.						
4 $\frac{1}{4}$ × 3 $\frac{1}{4}$ ....	5 0	0	18	0	0	10	6
6 $\frac{3}{4}$ × 3 $\frac{1}{4}$ ....	7 6	1	0	0	0	14	0
6 $\frac{1}{2}$ × 4 $\frac{3}{4}$ ....	7 6	1	1	0	0	16	0
8 $\frac{1}{2}$ × 6 $\frac{1}{2}$ ....	10 6	1	9	0	1	3	0
10 × 8 ....	16 0	1	14	6	1	7	0
12 × 10 ....	23 0	2	5	0	1	12	6

Fluted-glass Dippers, 6d., 9d., 1s., 1s. 2d., 1s. 6d.  
Ebonite ditto, 1s. 6d., 1s. 9d., 2s., 2s. 6d.

## PORCELAIN PANS.

Shallow.	Deep.	Shallow.			Deep.		
		s.	d.	s.	d.	s.	d.
6 × 5 inches ....	0 10	1	2	12 × 10 inches ....	2	8	3
7 × 3 $\frac{1}{2}$ " ....	1 0	1	2	14 × 12 "	4	9	5
8 × 6 " ....	1 2	1	6	16 × 13 "	8	0	10
10 × 8 " ....	1 10	2	2	18 × 16 "	9	6	12

## GLASS DISHES.

Perfectly smooth and flat, made of stout green glass.

7 × 3 $\frac{1}{4}$ inches ..	2 0	9 × 7 inches ..	3 9
6 × 4 $\frac{1}{2}$ " ..	2 0	11 × 9 " ..	4 9
8 × 6 " ..	2 6	12 $\frac{1}{2}$ × 10 $\frac{1}{2}$ " ..	6 9

## EBONITE TRAYS.

8 × 6	9 $\frac{1}{2}$ × 7 $\frac{1}{2}$	11 × 9	12 $\frac{1}{2}$ × 10 $\frac{1}{2}$	13 × 11
4s. 6d.	5s. 3d.	6s. 3d.	8s. 3d.	8s. 9d.

**GUTTA-PERCHA TRAY,** 24 × 19, in Wood Trough, to hold the whole sheet of paper, 30s.

## PRESSURE-FRAMES.

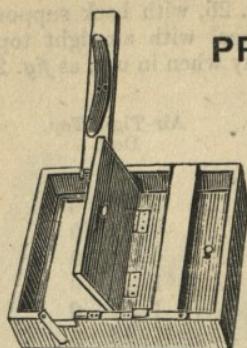


Fig. 28.

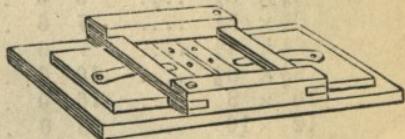


Fig. 29.

**Pressure-Frames** with jointed backs, for viewing the development of the picture without disturbing the paper, the cross-bars fitted with springs for equal pressure, *fig. 28.*

		Plain Ash,		Polished Mahogany,		Best Quality.	
		complete with glass.		with India-rubber Cushions.		s.	d.
For Stereoscopic plates	.....	4	0	.....	.....	7	6
Ditto, for Plates	6 × 5 inches.....	4	0	.....	.....	9	6
"	8 × 6 , .....	5	6	.....	.....	9	6
"	10 × 8 , .....	8	6	.....	.....	12	6
"	12 × 10 , .....	12	6	.....	.....	20	0
"	17 × 14 , .....	20	0	.....	.....	30	0

The 10 × 8 inches and larger sizes may be had with the bars placed in a longitudinal direction (by this means they are more available for printing from several small negatives at one time), at 6d. each extra.

### Varnished Pine Pressure-Frame, improved make, *fig. 29.*

$4\frac{1}{4} \times 3\frac{1}{4}$ , 1s. 2d. each, 12s. per doz.;  $5 \times 4$  or  $6\frac{3}{4} \times 3\frac{1}{4}$ , 1s. 4d. each, 14s. per doz.  
 $6\frac{1}{2} \times 4\frac{3}{4}$  or  $7\frac{1}{4} \times 4\frac{1}{2}$ , 2s. each, 21s. per dozen;  $8\frac{1}{2} \times 6\frac{1}{2}$ , 3s. 4d. each.

### Teak-wood Frames, $\frac{1}{2}$ size, 7s., $\frac{1}{2}$ 10s., $\frac{1}{2}$ 16s. per doz.

In less quantities, 9d., 1s., 1s. 6d. each.

### Opalotype Pressure-Frames, made to register with exactitude.

$\frac{1}{4}$  plate 6s.;  $\frac{1}{3}$ , 7s. 6d.;  $\frac{1}{2}$ , 8s. 6d.

### Cox's Improved Tinting-Frame, for tinting backgrounds and double printing, with directions for use, price 1s. 6d.

This frame is very simple, but extremely useful where masks are used.

### Cox's Vignetting Frame, for printing vignettes of any form or size without vignette glasses, and with much greater delicacy, with directions. $\frac{1}{4}$ -plate, 2s. 6d.; $\frac{1}{3}$ , 3s.; $\frac{1}{2}$ , 3s. 6d.

### Felt Pads, for pressure-frames—

5 × 4	6 × 5	8 × 6	10 × 8	12 × 10	17 × 14
5d.	6d.	7d.	10d.	1s. 6d.	2s. 6d.

## VIGNETTE GLASSES

are made of two descriptions, viz. with transparent or opaque centres; the former are used for paper prints, and the latter to produce vignettes on glass positives.

Outside Size.	Transparent.	Opaque.	Outside Size.	Transparent.	Opaque.
	s. d.	s. d.		s. d.	s. d.
2½ × 2 inches	0 6	2 4	6½ × 4¾ inches	1 10	4 8
3½ × 2¾ ,	0 8	2 6	8½ × 6½ ,	2 4	6 6
4¼ × 3¼ ,	0 9	3 0	Stereoscopic	2 3	
5 × 4 ,	1 2	3 9	Carte de Visite	0 9	

\*\* The openings can be had of any size or shape.

Cox's VIGNETTING FRAME—see PRESSURE-FRAMES.

PAPER MASKS—see MISCELLANEOUS APPARATUS.

## RETOUCHING FRAMES.

RETOUCHING DESK OR FRAME, plain mahogany, for $\frac{1}{4}$ or $\frac{1}{2}$ plate, with reflector	..	..	..	..	s. d.
Ditto, superior, with lid	..	..	..	..	.. 12 6
Ditto, for $\frac{1}{2}$ or $\frac{1}{4}$ plate	..	..	..	..	.. 17 6

Faber's Pencils, best, 6d. each.

## BACKGROUNDS AND ACCESSORIES.

### PAINTED BACKGROUNDS.

Feet.	Plain, Distemper.	Plain, Flatted Oil.	Scenic, in Distemper.	Scenic, Flatted Oil.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
8 × 6	0 16 0	1 1 0	1 5 0	1 11 6
9 × 7	1 10 0	1 16 0	2 2 0	2 10 0
12 × 9	2 7 6	2 15 6	3 10 0	3 15 0

These Backgrounds are painted in a neutral colour, either brown or grey, and those in flattened oil are not liable to injury from damp. They are all mounted on rollers and fixed to a bâton.

Graduated background, in flattened oil, for the 'Rembrandt vignette,' mounted on roller..

Side-slips, doors, windows, curtains, columns, &c., distemper on linen cloth

Ditto, ditto, flattened oil..

Cloth background, without crease or seam, either drab or slate colour,

8 ft. by 6 ft.

Solid wood pedestal ..

Ditto, full size ..

Pedestal and fluted pillar ..

Balcony rail, 4 ft. long ..

Solid universal, containing ten changes, forming piano, writing-table, bookcase, &c.

Solid rustic chairs and stiles, each 21s. to ..

Profile chairs, tables, or piano ..

## ROLLING PRESSES.

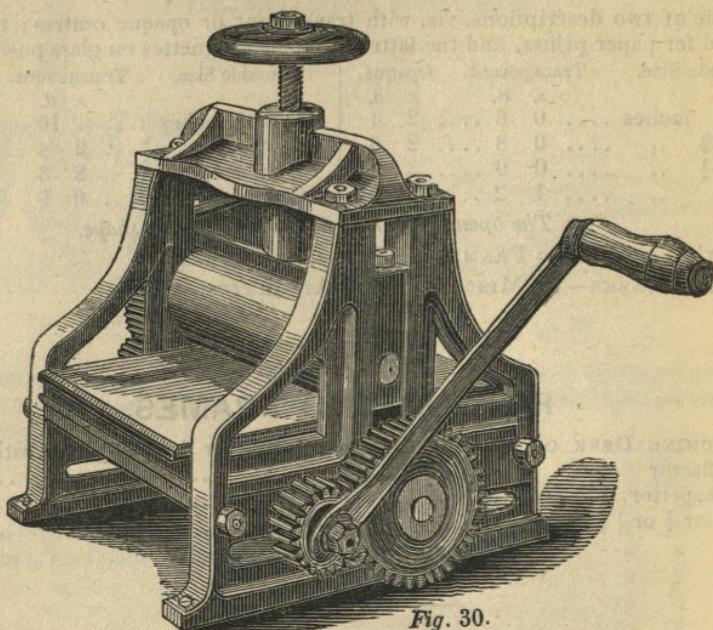


Fig. 30.

Rolling Press, with cylinders  $3\frac{1}{2}$  in. diam., centre pressure screw, geared motion, fig. 30.  
With steel plate ..  $12 \times 9$  .. £5 10 0 with iron bed .. £6 6 0

..  $12 \times 4\frac{1}{2}$  .. 3 7 6 .. .. 3 15 0

Polished steel plates, separate from the Machines, price  $2\frac{1}{4}d.$  per square inch.

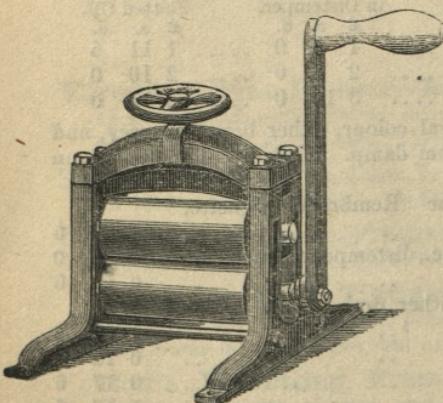


Fig. 31.

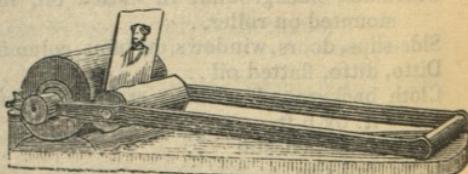


Fig. 32.

**Rolling Presses** without steel plates are equally as efficient for the smaller sizes, and are generally employed; the difficulty hitherto has been to obtain a sufficiently bright surface to the roller, and also to preserve that polish from tarnish or rust.

We are now enabled to supply Presses with highly-polished rollers that have been NICKEL-PLATED.

**THE NICKEL-PLATING** is an effectual preservative from rust.

The surface polish is far more brilliant.

It will not tarnish like silver, or require greasing like steel.

It can be cleaned with water like common earthenware, and retains its polish without any polishing powder.

**Cox's IMPROVED ROLLING MACHINE**, fig. 31, for  $\frac{1}{2}$ -plate or cabinet pictures, with highly-polished rollers (recommended) .. .. £1 15 0  
Ditto ditto with Nickel-plated rollers .. .. 2 2 0

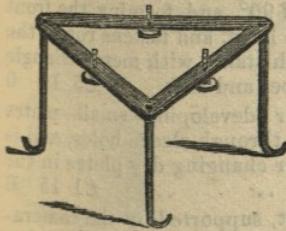
CARTE-DE-VISITE Press, fig. 32, constructed on the principle of Sellers' machine (see our advertisement).

..... machine (our own manufacture), steel roller .. . . . . 1 0 0  
Ditto, Nickel-plated .. . . . . 1 5 0

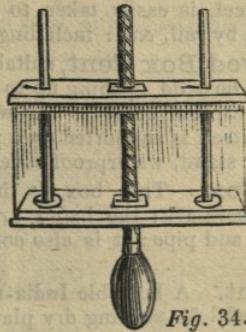
Some years' experience enables us to recommend these machines with confidence. Notwithstanding their low price, they are really serviceable, doing their work well, quickly, and with ease.

Iron Press and Die for Cameo Pictures . . . . £1 0 0  
Cutting Punches for Small Ovals . . . . . 0 4 0

## **PLATE-HOLDERS, &c.**



*Fig. 33.*



*Fig. 34.*



*Fig. 35.*

LEVELLING STANDS, with three adjusting screws, for small plates, fig. 33 ..	s.	d.
" for $\frac{1}{2}$ -plates .. .. .. .. ..	3	0
" for $\frac{1}{4}$ -plates .. .. .. .. ..	4	6
" for large plates, $10 \times 8$ .. .. .. .. ..	6	6

SCREW PLATE-HOLDER, *fig. 34*, to hold plates whilst cleaning, up to  $6\frac{1}{2} \times 4\frac{3}{4}$  4 0  
 " " " " " 10 x 8 5 6  
 " " " " " 15 x 12 7 6

LEVER PNEUMATIC HOLDERS, fig. 35, very superior .. 2 9

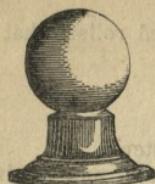


Fig. 36.

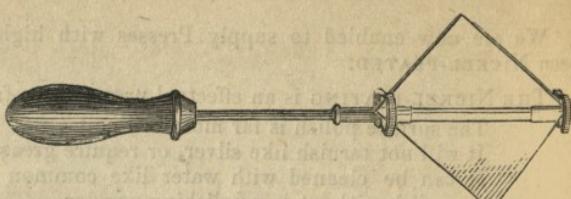


Fig. 37.

GLOBE PLATE-HOLDERS, with elastic ball, <i>fig. 36</i>	..	..	..	3	6
" " with long spoon handle	..	..	..	4	9
" " the ball in wood case	..	..	..	4	6
DEVELOPING HOLDER, <i>fig. 37</i> , improved spring clip, for holding plates whilst developing; they are so contrived as to be free from metal, and insure clean hands without risk of staining the plate; $\frac{1}{4}$ or $\frac{1}{2}$ plate ..	..	..	..	2	6
Ditto, for larger plates ..	..	..	..	3	0

## OPERATING TENTS AND DEVELOPING BOXES.

**Photographic Tent**, consisting of a wood tray  $22 \times 12$  inches, fixing on a tripod stand; and provided with a cover lined with yellow calico impervious to light, made to clasp round the body by means of an elastic India-rubber band: when closed, the cover goes inside, and the top of the tent forms a lid to the tray. Price, with stand .. .. .. .. £1 12 6

Ditto,  $27 \times 16$  inches, with water-sink and waste-pipe .. .. .. 2 5 0

**Wheelbarrow Tent.** This is arranged so as to enable the Tourist to convey all his apparatus, &c. without help; it is a square tray fitted with a pair of handles and a wheel, is easily taken to pieces, and packs up into a small flat parcel for conveyance by rail, &c.: including water-sink and waste-pipe £3 10 0

**Cox's Improved Box Tent**, suitable for working plates up to  $9 \times 7$  inches, it is formed by the box lid opening up to an angle of  $90^\circ$ , and forming the front of the tent. The waterproof cover is thrown over the head, and fastens round the waist, whilst the box itself is supported on a polished ash stand, with metal triangle top. Price, including stand, waterproof cover, waste pipe, and sink £5 10 0

**Developing Box.** This box is intended for developing small plates in the open air, if necessary; the hands are inserted through sleeve-holes, and is fitted with water-sink and pipe; it is also convenient for changing dry plates in the dark slides, &c. &c. .. .. .. .. £1 15 6

**Howard's Tent.** A Portable India-rubber Tent, supported by the camera-stand. Extremely useful for shifting dry plates, or for exciting or developing either wet or dry small plates in the field (recommended) .. .. .. £1 1 0

\*\* These prices are subject to slight variation, according to the cost of materials.

## FITTINGS FOR TENTS.

Gutta-Percha Developing Trays, $12\frac{1}{2} \times 10\frac{1}{2}$ , with outlet pipe for waste	..	9	0
Ditto, $8\frac{1}{2} \times 6\frac{1}{2}$	..	5	0
Flexible Folding Trays, with waste pipe, 6s.	..	7	6
Gutta-Percha Jug, for washing negatives	..	2	6

**Ebonite Developing Cups, Baths, Water-Bottles, Clips, &c.**

See pages 26 and 27.

## SCALES, WEIGHTS, AND MEASURES.

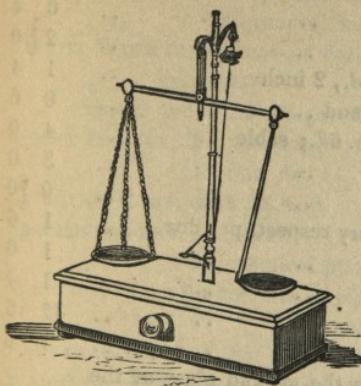


Fig. 38.

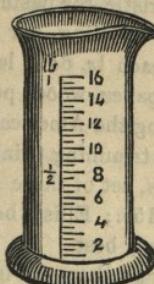


Fig. 39.



Fig. 40.

	s.	d.
Glass Measures, figs. 39 and 40, 1 oz. 9d.; 2 oz. 1s.; 4 oz. 1s. 4d.;		
½ pint, 2s.; 1 pint, 3s.; 1 quart..	..	5 6
Minim or drop measures ..	..	0 8
SCALES AND WEIGHTS, with glass pan and brass pillar, mounted on mahogany box, with drawer for weights, fig. 38	32	0
Scales and weights, with glass pans in oak box ..	4	0
Ditto, brass pans ..	2	9
Sets of extra weights, from 1 grain to 2 drachms ..	1	0
SCALE PANS, glass, drilled and paired ..	2	0
SPECIFIC GRAVITY BOTTLE, 500 grains, in case, with counterpoise ..	6	0

## MISCELLANEOUS APPARATUS.



Fig. 41.



Fig. 42.



Fig. 45.

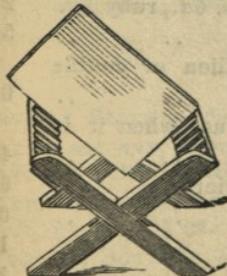


Fig. 43.



Fig. 44.

		s.	d.
BATH TESTER, for ascertaining the quantity of silver in solution, including case, <i>fig. 49</i>	.. .. .. .. ..	3	0
BRUSHES for coating paper	.. .. .. .. ..	0	4
,, flat camels' hair, 1 inch 1s., 2 inch	.. .. .. .. ..	2	0
,,         in tin ferrules, 1 inch, 9d., 2 inch	.. .. .. .. ..	1	4
,, round hog-bristle, for paste or glue, 4d. and ..	.. .. .. .. ..	0	6
,, very fine, for spotting, per doz., fitch, 1s. 6d.; sable	.. .. .. .. ..	4	0
CHAMOIS LEATHER, each 1s. 6d.; large size	.. .. .. .. ..	3	0
CLIPS for suspending paper, wood, per doz.	.. .. .. .. ..	0	10
,, glass, superseding the American pegs in every respect, per doz.	.. .. .. .. ..	1	6
CUTTING KNIVES, for trimming prints	.. .. .. .. ..	1	0
DEVELOPING GLASSES, set of three	.. .. .. .. ..	1	4
DIAMONDS, glaziers', 15s.; Ellis's best	.. .. .. .. ..	17	6
,, writing, 6s.; best	.. .. .. .. ..	7	6
FOCUSING GLASSES, to show the image erect on the ground glass of the camera; very useful for small views or fine engravings	.. .. .. .. ..	8	6
,, japanned tin, brass eye-piece	.. .. .. .. ..	2	6
,, Cox's improved, in brass mounting, giving a high magnifying power and large field, far superior to any other combination, highly recommended, <i>fig. 41</i>	.. .. .. .. ..	5	0
FOCUSING CLOTH, India-rubber cambric, very light in weight and impervious to daylight, 36 x 30, 5s. 6d.; 30 x 24	.. .. .. .. ..	4	0
FORCEPS for removing paper from solutions, ebonite	.. .. .. .. ..	0	10
GLASS SHAPES for cutting paper Photographs to size, bevelled and polished edges, <i>fig. 42</i> , oval, square, or dome, $\frac{1}{2}$ , $\frac{1}{3}$ , or C.V. size, 6d.; $\frac{1}{4}$ , 8d.; $\frac{1}{3}$ , 1s.; $\frac{1}{2}$ , or cabinet, 1s. 6d.; whole size	.. .. .. .. ..	2	0
,, with ground surface and knob, 1s., 1s. 6d., 2s. 3d.	.. .. .. .. ..	3	6
,, complete set, in box, with knife	.. .. .. .. ..	30	0
India-rubber cloth, for tents, 60-inch wide, per yard	.. .. .. .. ..	9	0
,, gloves or gauntlets, per pair	.. .. .. .. ..	7	0
,, finger stalls, each 3d., per doz.	.. .. .. .. ..	2	6
,, sheet, for water-tight bath-tops, cut to size, per oz.	.. .. .. .. ..	1	0
,, bellows for blowing off dust, &c.	.. .. .. .. ..	1	0
,, tubing per foot, $\frac{3}{8}$ -inch, 7d.; $\frac{1}{2}$ -inch	.. .. .. .. ..	0	10
JET-BLACK PAPER for mounting positives, per sheet, 2d.; quire	.. .. .. .. ..	3	6
MARINE GLUE for cementing glass, per cake	.. .. .. .. ..	0	6
NON-ACTINIC GLASS for dark room, yellow, per sq. foot, 1s. 6d., ruby	.. .. .. .. ..	2	0
,, SILK for dark room, per yard, 33 inch wide	.. .. .. .. ..	5	0
PAPER MASKS, with oval openings, any size, for medallion or double printing, $\frac{1}{4}$ -plate, per doz. 6d., larger size	.. .. .. .. ..	0	8
PHOTOGRAPHIC LANTERN, with yellow glass shades; for use when it is requisite to employ artificial light in developing, &c.	.. .. .. .. ..	4	6
,, with movable shades, very superior	.. .. .. .. ..	6	6
Candles for ditto, each	.. .. .. .. ..	0	4
PINS for suspending paper, per box	.. .. .. .. ..	1	0
,, for fastening paper to wood, per doz.	.. .. .. .. ..	1	0

PLATED RAINERS for drying negatives, folding, <i>fig. 43</i> , 12 grooves, up to $\frac{1}{2}$ -plate size, 1s. 9d.; full size .. .. ..	2 6
" 24 grooves, 2s. 3d.; full size .. .. ..	3 0
SILVER WIRE for corners of dark slides, per foot .. .. ..	1 0
" extra stout .. .. ..	1 6
Hooks for lifting prepared plates from bath solution, &c. each .. .. ..	1 0
SPRIT LEVELS, 3 inches long .. .. ..	3 0
" circular, <i>fig. 44</i> .. .. ..	3 6
STIRRING RODS, each 3d. and .. .. ..	0 4
THERMOMETERS, 1s.; best .. .. ..	2 0
" for chemical purposes, scale enclosed in glass tube .. .. ..	4 6
WATER-BOTTLE for tourists, <i>a</i> , <i>fig. 45</i> , $\frac{3}{4}$ gallon .. .. ..	6 6
" 1 gallon .. .. ..	8 6
VALVES for ditto, <i>b</i> , <i>fig. 45</i> , 2s.; common .. .. ..	1 0
WASHING APPARATUS, circular zinc trough, 24 in. diameter, with perforated bottom, and self-acting syphon pipe to draw off the waste water .. .. ..	25 0
Ditto, 18 inch .. .. ..	21 0
YELLOW, ORANGE, AND BLACK TWILL, per yard, various .. .. ..	1 0

Separate Parts of Apparatus and Loose Fittings of every description, Camera Hinges and Screws, Clamp Nuts, Brass Springs for Doors, Flanges for Lenses, &c.

## CHEMICAL APPARATUS.

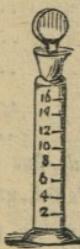


Fig. 46.

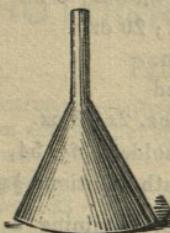


Fig. 47.

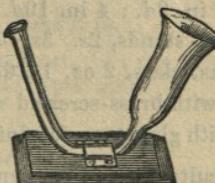


Fig. 48.

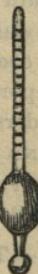


Fig. 49.

ALBUMEN FILTERS, <i>fig. 48</i> .. .. ..	s. d
ARGENTOMETERS, or bath testers, <i>fig. 49</i> , accurately adjusted, packed in case .. .. ..	3 0
Immersion Tubes, or trial glasses for ditto .. .. ..	1 0
BEAKER GLASSES, for containing hot liquids, 1 oz. 4d.; 3 oz. 6d.; 7 oz. 10d.; 16 oz. 1s.; 32 oz. .. .. ..	1 6
COLLODION BOTTLES, <i>fig. 46</i> , with ground stoppers and lip, 1 oz. 1s. 4d.; 2 oz. 1s. 9d.; 4 oz. 2s. 6d.; 8 oz. .. .. ..	4 0



Fig. 50.



Fig. 51.



Fig. 52.



Fig. 53.



Fig. 53.



Fig. 54.

COLLODION BOTTLES, 'Cometless,' capped and stoppered, 2 oz.	2s.	6d.		
4 oz.	3s.	8 oz.	..	..
..	..	..	..	5 0
If graduated, 6d., 8d., 1s., and 1s. 6d. each extra.				
COLLODION FILTERS, fig. 51	..	..	..	6 0
CRUCIBLES, Patent Plumbago, for assayers, 3 inch	8d.	5 inch	2s.	3 6
DEVELOPING GLASSES, set of 3, smooth round inside	..	..	..	1 4
.. CUPS, ebonite, set of 3	..	..	..	2 6
DROPPING BOTTLE for acids, silver solution, &c., fig. 50	..	..	..	1 6
.. fig. 52, for larger quantities	..	..	..	1 6
.. pneumatic, for instantly dropping single drops or larger quantities with certainty, fig. 53, 1s. 6d.; large size..	..	..	..	2 0
EVAPORATING DISHES, 2 inch, 4d.; 4 inch, 8d.; 6 inch	..	..	..	1 0
.. Berlin, to stand heat, 3 inch, 8d.; 4 inch, 1s. 2d.;				
.. 5 inch, 1s. 6d.; 6 inch ..	..	..	..	2 3
FLASKS, hard Bohemian glass, for boiling, 2 oz. 6d.; 6 oz. 10d.; 16 oz.	..	..	..	1 2
FUNNELS, glass, fig. 47, 2 in. 4d.; 3 in. 6d.; 4 in. 8d.; 6 in.	..	..	..	1 0
.. ebonite, 5 oz. 1s. 3d.; 10 oz. 1s. 9d.; 20 oz.	..	..	..	2 0
.. porcelain, 3 in. 8d.; 4 in. 10d.; 6 in.	..	..	..	1 6
Funnel holders, or retort stands, 2s., 3s. 6d., and	..	..	..	6 0
PESTLES AND MORTARS, glass, 2 oz. 1s. 6d., 4 oz. 2s., 8 oz.	..	..	..	3 0
SPIRIT LAMPS (glass) with brass-screwed wick-holders, fig. 54, 1s. 6d., 2s.	..	..	..	3 0
STOPPERED BOTTLES with glass taps, for fining Bath Solutions, $\frac{1}{2}$ gall. 7s. 6d., gall. 9	..	..	..	6 0
Stills.—The difficulty often experienced in obtaining a supply of Distilled Water may be readily overcome by the aid of a small still and worm-tub; they can be used over a common fire, and require but little attention.				
TIN STILL to hold half a gallon, with worm-tub complete	..	..	..	14 6
.. one gallon ..	..	..	..	20 0
.. two gallons ..	..	..	..	26 0
Test Tubes, per doz. 3 in. 1s.; 4 in. 1s. 3d.; 6 in. 1s. 9d.; 8 in.	..	..	..	4 0
THERMOMETER for ascertaining the temperature of operating-room	..	..	..	1 0
.. best quality ..	..	..	..	2 0
.. chemical, for testing acids to $212^{\circ}$ , 4s. 6d.; $300^{\circ}$	..	..	..	6 0

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" hinged top for cleaning the glasses, and door, on which is fixed a reflector for throwing light on the picture ..	0	5	6
" Walnut-wood, with hinged top, door, and reflector ..	0	9	0
" Best quality walnut-wood ..	0	12	6
" Zebra-wood ..	0	14	0
Stereoscope, with adjustments similar to an opera or race glass ..	0	17	6
" best quality, achromatic ..	1	5	0
" gilt bars ..	1	15	0
<b>Revolving</b> , or magazine stereoscope, to exhibit 36 pictures, plain mahogany ..	1	11	6
" with achromatic lenses, handsome walnut-wood ..	3	10	0
" with achromatic lenses, for 50 pictures, very handsomely finished ..	4	10	0
Stereoscopic Views, on paper, according to quality, from, per doz., 6s. to 0	18	0	0
Square prismatic lenses for stereoscopes, best quality, per pair ..	0	2	0

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Ditto, with 4½-inch lens, and an arrangement by which it can be used for stereoscopic views, obviating many of the inconveniences experienced in getting an even light with the ordinary stereoscope ..	2	2	0
Ditto, ditto, large size, 6-inch lens, veneered bird's-eye walnut-wood, handsomely finished ..	3	10	0

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" per quire ..	0	3	6
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" per ream ..	2	12	6
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FILTERING, in packets of 100 sheets, 6 in. diameter ..	0	0	6
" 7 in. diameter ..	0	0	9
" 10     " ..	0	1	0
" 15     " ..	0	1	6
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NOTE.—The No. 1 paper is that most usually in demand, and is the same so long sold by us as 'Cox's albumenized.' The No. 2 is prepared in a similar manner, but the paper undergoes a special preparation before it is albumenized, and is considered to be somewhat harder and less porous than the No. 1.

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" " 18	..	1	5	0
" " 24	..	1	10	0
" " 36	..	2	0	0
Single colours in small bottles, 1s.				

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	s.	d.		s.	d.
Sliding-top boxes, 12 colours and brushes . . . . .	7	0	....	9	0
", 18                  ",                  10	6	0	....	13	0
", 24                  ",                  14	0	0	....	18	0
Boxes with lock, 12                  ",                  10	6	0	....	12	6
", 18                  ",                  14	0	0	....	18	0
", 24                  ",                  18	0	0	....	25	0

The higher prices in the second column are caused by more expensive, but necessary, colours and brushes. Single cakes of colours from 6d. to 1s. each.

Camel-hair brushes ..	..	per doz.	1s. 6d. to	2	0
Sable ..	..	..	" ..	4	0
Dusting ..	..	..	" ..	4	0
Gold and silver shells or cups ..	..	..	" ..	6	0
Elastic bottle, for removing superfluous colour, each				1	4

Newman's colouring varnish, 1s. and 3s. per bottle.

", penetrating varnish for non-inverted positives, per bottle,	1s. 6d.	and 3s.
", preparation for sizing paper, per bottle,	1s. 6d.	and 2s.
", Diamond varnish, per bottle, 1s.		
", Enamel paste, per bottle, 1s. and 2s. 6d.		

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Ditto for C. D. V. usual size, per dozen, 1s. 4d.; broad margin, 5s. 6d.

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" Enamel back and front, per gross .. .. ..	4 6	
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Enamel, per doz. 8d. per 100 .. .. ..	4 0	
" " with coloured line round margin, per doz. 9d.;		
" " per 100 .. .. ..	5 0	
Carte-de-Visite Card Mounts, per 1000 .. .. ..	5 6	
Superior, 9d. per 100, per 1000 .. .. ..	7 0	
" Extra superfine, stout, 1s. per 100, per 1000 .. .. ..	9 0	
" Toned card, round corners, 1s. 4d. per 100, per 1000 .. .. ..	13 0	
" Enamel card, 1s. 3d. per 100, per 1000 .. .. ..	11 0	
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Size of Tint ..	5½ × 3½	6 × 5½	8 × 6	10½ × 8½	12½ × 10½	13½ × 11½
Per dozen ..	1s.	1s. 3d.	1s. 8d.	3s. 3d.	4s.	5s. 9d.

CUT-OUT CARD MOUNTS of the usual photographic sizes, with one opening in each, gold bevel and line.

Outside size ..	12½ × 10½	10½ × 8½	8 × 6½	7 × 5¾	5½ × 4
For pictures ..	whole plate	½ plate	½ plate	¼ plate	C. V.

SMOOTH CARD, white } or tinted, per doz. }	4s. 6d.	3s. 4d.	2s. 3d.	1s. 9d.	1s.
ROUGH CARD ..	5s. 6d.	4s.	2s. 9d.	2s. 3d.	1s. 3d.

## SHOW FRAMES AND MOUNTS.

Card-board Mounts, with 4 C. V. openings, each	..	s. d.
6 .. .. ..	1 3	
" 8 .. .. ..	1 9	
" 12 .. .. ..	2 0	
" 16, and two ½ plate .. .. ..	3 6	
" .. .. ..	6 6	
Show Frame, narrow gilt moulding, with perforated card,		
4 C. V. openings, glass, and backboard .. .. ..	2 9	
" six openings .. .. ..	3 9	
" twelve .. .. ..	6 6	
" sixteen C.V. and two half-plate .. .. ..	13 6	
" twenty C.V. and one whole-plate .. .. ..	14 6	

## GLASS PLATES, &amp;c.

The selection of glass plates is made an especial feature, and the quality of best polished crown, extra thick-flatted crown, and patent plate, can be at all times guaranteed.

Inches	Best Polished Crown. Per gross.	Best Polished Crown Flatted. Per gross.	Best Extra Thick Flatted Crown. Per gross.	Patent Plate. Per doz.	Opal Patent Plate. Per doz.
s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
2½ × 2	1 9 ..	— ..	— ..	— ..	— ..
3¼ × 2¾	3 6 ..	— ..	— ..	— ..	— ..
4½ × 3¼	6 6 ..	11 0 ..	14 6 ..	1 6 ..	6 6
5 × 4	10 0 ..	16 0 ..	22 0 ..	2 3 ..	8 0
6¾ × 3½	11 0 ..	17 6 ..	23 0 ..	2 6	—
6½ × 4½	— ..	24 0 ..	31 6 ..	3 0	—
6½ × 4¾	15 0 ..	26 6 ..	34 0 ..	3 8 ..	14 0
7¼ × 4½	— ..	27 6 ..	38 0 ..	4 0	—
8½ × 6½	30 0 ..	52 0 ..	70 0 ..	7 0 ..	22 0
9 × 7	— ..	— ..	84 0 ..	8 3 ..	28 0
10 × 8	— ..	— ..	120 0 ..	12 6 ..	36 0
12 × 10	— ..	— ..	200 0 ..	21 0	—

\*\* Where the price is quoted at per gross, small quantities will be charged rather higher.

The BEST POLISHED CROWN glass is an article really good, and recommended; for positives nothing better can be required, and is suitable for small-size negatives.

We now supply the BEST POLISHED CROWN of the usual thickness, FLATTED, and where strength is not important it is in much use.

EXTRA THICK flatted crown is much used, and recommended for all sizes above 5 × 4, or half plate.

OPAL SHEET can be supplied  $\frac{1}{4}$  size, 3s. 6d.;  $\frac{1}{2}$ , 5s.;  $\frac{1}{4}$ , 7s. 6d.; but as perfect contact is necessary, Patent plate should be employed.

GROUND glass, for focus screens.

5 × 5	6 × 6	7 × 7	8 × 8	10 × 10	12 × 12
Best 9d.	10d.	1s. 2d.	1s. 6d.	2s. 6d.	3s.
Common 5d.	7d.	9.	1ds.	1s. 8d.	2s. 3d.

ADAMANTINE FILES, for removing the edges of glass plates, 1s. each.

## LIVERPOOL DRY PLATES.

TANNIN PROCESS.

4½ × 3½	5 × 4	6¾ × 3½	6½ × 4¾	7¼ × 4½	8½ × 6½	9 × 7	10 × 8
Per dozen, 4s.	5s. 6d.	7s.	8s. 6d.	10s.	16s.	18s.	23s.

Full Instructions for Exposure and Development are sent with each dozen plates.

The extra sensitive Plates are the same price as the ordinary.

## CATALOGUE OF PHOTOGRAPHIC APPARATUS,

## METAL PLATES, &amp;c.

	Metal Plates.	s. d.	Transfer Cloth.	s. d.	American Muslin.
Per dozen.					
2½ × 2 inches .....	0 6 .....		0 3 .....		1 0
3½ × 2¾ .....	0 10 .....		0 6 .....		1 9
4¼ × 3½ .....	1 2 .....		0 9 .....		3 0

AMERICAN MUSLIN AND TRANSFER CLOTH are employed for transferring pictures from a glass positive. See the *Compendium of Photography*, 11th edition, by FREDERICK J. COX, post free 7 stamps.

The increased demand for Positives on Iron Tablets enables us to offer a *superior* article at a considerable reduction in price.

## PURE CHEMICAL AND PHOTOGRAPHIC PREPARATIONS.

(Subject to the fluctuations of the Market.)

The importance of purity in Chemicals renders it necessary to call attention to cheaper articles which are sometimes offered for sale. We guarantee all preparations free from impurity and of uniform strength and character.

These are our Wholesale Terms; where the price is quoted at per lb. a smaller quantity cannot be supplied at the same rate.

	℔ oz.	℔ lb.		℔ oz.	℔ lb.
	s. d.	s. d.		s. d.	s. d.
Acid, acetic ..	0 2	1 3	Alcohol, pure ..	0	3 6
,, glacial, solid at 50° ..	0 3	2 3	,, absolute ..	0	6 6
,, citric (variable) ..	0 6	6 6	,, methylated, pint,		
,, formic ..	0 3	3 6	1s.; gallon, 6s.		
,, gallic ..	1 0	14 0	Ammonia, pure ..	0	2 1
,, hydrochloric ..	0 3	1 0	,, bichromate ..	2 0	21 0
,, nitric, 1·450 ..	0 2	1 3	,, carbonate ..	0	2 1
,, 1·500 ..	0 3	2 6	,, hydro-sulphide ..	0	4 0
,, pyrogallic, finest quality bottles ..	3 6	51 0	,, muriate ..	0	2 0
,, sulphuric, common ..	..	0 4	Ammonium, bromide ..	1 0	12 0
,, pure ..	0 2	1 0	,, iodide ..	3 0	36 0
,, tannic ..	1 0	12 0	Barium, chloride ..	0	2 1
			,, iodide ..	3 6	40 0

## PURE CHEMICAL AND PHOTOGRAPHIC PREPARATIONS.

(Continued.)

	$\frac{P}{W}$ oz. s. d.	$\frac{P}{W}$ lb. s. d.		$\frac{P}{W}$ oz. s. d.	$\frac{P}{W}$ lb. s. d.
Baryta, nitrate, pure ..	0 2 1	6	Lime, carbonate ..	0 2	1 0
Cadmium, bromide ..	2 6	32 0	Lime, chloride ..	0 2	1 0
,, chloride ..	3 0	36 0	Litmus paper, book, 2d.		
,, iodide ..	3 0	36 0	Magnesia, nitrate ..	0 6	5 6
Calcium, bromide ..	2 6	32 0	Magnesium ribbon ..	16 0	
Charcoal, animal ..	0 2	0 6	Mercury, variable ..	0 8	7 6
Collodion, negative ..	0 6	7 6	Palladium, chloride solution	2 6	
,, positive ..	0 6	7 6	Photographic Soap pr. ck. 6d.		
Collodio-chloride of Silver, 10 ozs. 5s. 6d.			Potass, bichromate, pure ..	0 2	2 0
Copper, sulphate, pure ..	0 2	1 0	,, caustic ..	0 4	4 0
Cotton wool ..	0 3	3 0	,, chlorate ..	0 2	1 9
Developing solution ..			,, nitrate, pure ..	0 2	1 0
,, iron, for positives or negatives pint, 9d.			,, permanganate ..	1 6	
,, pyrogallic for nega- tives, pint, 1s. 6d.			Potassium, bromide ..	1 0	12 0
Dextrine for mounting paper pictures ..	0 2	1 0	,, iodide (variable) ..	2 0	24 0
Emulsion for preparing dry plates, 5 oz. bottles, 5s. 6d.			,, sulphuret in bats. ..	2	0
Encaustic paste, for produc- ing a glass-like surface on prints, per pot, 1s.			Silver, iodide ..	8 0	
Ether, sulphuric, .750 ..	0 6	6 0	,, nitrate, crystallized ..	3 6	54 8
,, absolute ..	0 8	7 6	,, re-crystallized ..		
,, methylated ..	0 3	3 0	for negative bath ..	4 0	62 8
Fixing solution for positives or negatives, per pint, 6d.			Silver bath, ready for use, per pint, 7s. ..	0 5	
Gelatine, pure ..	0 6	5 0	Soda, hypo-sulphite ..	0 2	0 4
,, Nelson's, 8-oz. packets, 3s.			,, 7-lbs., 1s. 9d.; per cwt. 21s.		
Glycerine ..	0 4	4 0	,, acetate ..	0 2	1 0
Gold, chloride, $\frac{1}{4}$ dr. bottle, 1s. 10d.			,, carbonate ..	0 2	1 0
,, in 1 drachm bottle, 7s.	0 7		,, nitrate ..	0 2	1 4
,, solution for toning bath ..	0 4	3 0	,, phosphate ..	0 2	1 4
Gum Arabic, best Turkey ..	3 0	34 0	,, tungstate ..	0 3	1 9
Gun cotton ..	4 6	46 0	Sodium, chloride ..	0 2	2 0
,, paper ..			Sugar of milk ..	0 3	3 0
India-rubber solution for mounting, per bottle, 1s.			Toning Bath, pint, 1s. 6d.		
Iodine, pure re-sublimed ..	2 6	32 0	,, Cox's Lime, a superior preparation, keep- ing well, 1s. per bottle.		
,, tincture ..	0 6		Tripoli, prepared ..	0 3	2 6
Iron, pro-sulphate, pure ..			Uranium, nitrate ..	2 6	
,, double sulphate and ammonia ..	0 2	1 0	Varnish, Bate's black, 6d. bot.		
Kaolin, pure washed ..	0 2	0 6	,, Cox's negative, 1s. bot.		
Lead, acetate ..	0 3	2 0	,, Soehnée, 1s. 9d.		
,, nitrate ..	0 3	2 6	,, Transfer, 1s.		
			,, Non-actinic, for pre- paring glass for dark rooms, &c., 1s.		
			,, Retouching, 1s.		
			Water, distilled, gallon, 6d.		
			White wax ..	0 3	3 0
			Zinc, nitrate ..	0 6	5 6
			,, chloride ..	0 4	4 0

# FREDERICK J. COX, 26 Ludgate Hill, London.

## ALBUMENIZED PAPER (Cox's).

RIVE PAPER, especially for C. D. V. portraits; our own preparation: and recommended with confidence. See page 30.  
Post free on roller, per Quire, 6s. 6d.; Six Sample Sheets, 2s. 3d.

## CHLORIDE OF GOLD.

Quality and Weight guaranteed. 15 grains, 1s. 10d.; 1 drachm, 7s.

In all cases I guarantee the chloride of gold sold by me perfectly free from adulteration, and correct in weight. I ensure this by making the article on my own premises, and under my personal control.

The trial of a Sample Bottle, post-free 24 Stamps, is respectfully solicited, and comparison or test for quality invited against any other preparation in the market.

## COLLODION.

### MAWSON'S NEGATIVE.

20 oz. sep. sol. 6s. 8d.; 10 oz. 3s. 10d.

5 oz. Iodized, 2s.; 2 oz. 1s.

extra sensitive, 20 oz. 7s. 6d.; 10 oz. 4s. 3d.

" " POSITIVE. 20 oz. sep. sol. 6s. 8d.; 10 oz. 3s. 10d.

4 oz. Iodized, 1s. 10d.; 2 oz. 1s.

" " BLANCHARD'S NEGATIVE. 20 oz. 6s. 6d.; 10 oz. 3s. 6d.; 4 oz. 1s. 9d.

BROMO-IODIZED. for iron development, guaranteed to be made with pure spirit. Confidently recommended as a first-class Collodion, and equally well suited for the Tannin process. In bottles, 2 oz. 1s.; 5 oz. 2s. 3d.; 10 oz. 4s. 3d.; 20 oz. 7s. 6d.

### COLLODIO-CHLORIDE OF SILVER.

10 oz. 5s. 6d. sep. sol.

EMULSION for dry plates, 5 oz. 5s. 6d.

NITRATE OF SILVER. Pure, 3s. 6d. per oz.; 5 oz. at 3s. 5d. Recrystallized, 6d. per oz. additional.

## BOOKS ON PHOTOGRAPHY.

Photographic Chemistry (HARDWICK). By far the best and most complete book on the Practice and Theory of Photographic Chemistry. 5s. 6d.; post free 6s.

Instruction in Photography (Capt. ABNEY). Treats generally on Photography, wet and dry processes, silver and pigment printing, photolithography, &c. 2s. 6d.; post free 2s. 10d.

Newman's Harmonious Colouring, as applied to Photography. 1s.; post free 1s. 2d.

A Compendium of Photography (F. J. Cox). An excellent Manual for beginners and daily reference. 6d.; post free 7d.

Photographic News Almanack. Published Yearly, 1s.; post free 1s. 2d.

British Journal Almanack. Published Yearly, 1s.; post free 1s. 2d.

Photographic News. Every Friday, 3d.; per quarter, post free, 3s. 10d.